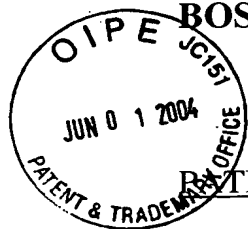


IFW



BOSE McKINNEY & EVANS LLP

CUSTOMER NUMBER: 25267

2700 First Indiana Plaza
135 North Pennsylvania Street
Indianapolis, Indiana 46204
(317) 684-5000

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit: 1743 }
Atty. Docket: 12258-0021 }
Applicants: Nolte et al. }
Invention: ADAPTIVE }
INTERFEROMETRIC }
MULTI-ANALYTE HIGH- }
SPEED BIOSENSOR }
Serial No.: 10/726,772 }
Filed: December 3, 2003 }
Examiner: Unknown }

Certificate Under 37 C.F.R. 1.8(a)

I hereby certify that this paper or fee is being deposited with the United States Postal Service as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

On May 27, 2004

A. Garland
A. Garland

Dated: May 27, 2004

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This statement is filed in the application identified above pursuant to 37 CFR §§ 1.56, 1.97 and 1.98. Applicants call attention to the art references within the knowledge of applicant and its attorney which are listed on the attached PTO Form 1449. No representation is intended that a complete search has been made or that no better art references are available. The filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to the patentability as defined in 1.56(b).


REMARKS

None of the art cited on the attached PTO Form 1449 is believed to disclose or suggest the invention recited in the claims of the above-identified application. It is therefore believed that the claimed invention is patentably distinguishable over these references.

Please charge any fees that might be due in connection with this Information Disclosure Statement to Bose McKinney & Evans LLP's Deposit Account No. 02-3223. An extra copy of this Information Disclosure Statement is enclosed for that purpose.

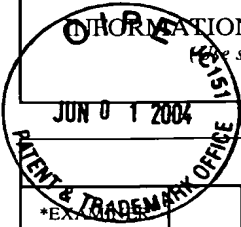
Respectfully submitted,

BOSE McKINNEY & EVANS LLP


William S. Meyers
Registration No. 42,884

Indianapolis, Indiana
(317) 684-5000

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE 	ATTY DOCKET NO.: 12258-0021		SERIAL NO.: 10/726,772
	APPLICANT(S): Nolte et al.		
	FILING DATE: December 3, 2003	GROUP: 1743	

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	AA	4,537,861	08/27/1985	Elings et al.			
	AB	4,876,208	10/24/1989	Gustafson et al.			
	AC	5,413,939	05/09/1995	Gustafson et al.			
	AD	5,478,527	12/26/1995	Gustafson et al.			
	AE	5,545,531	08/13/1996	Rava et al.			
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	AJ	6,110,748	08/29/2000	Reber et al.			
	AK	6,221,579	04/24/2001	Everhart et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	Xia et al., "Non-Photolithographic Methods for Fabrication of Elastomeric Stamps for Use in Microcontact Printing," <i>Langmuir</i> , vol. 12, pp. 4033-4038, 1996.
	AS	Hu et al., "Using Soft Lithography to Fabricate GaAs/AlGaAs Heterostructure Field Effect Transistors," <i>Applied Physics Letter</i> , vol. 71, no. 14, pp. 2020-2022, October 6, 1997.
	AT	Grzybowski et al., "Generation of Micrometer-Sized Patterns for Microanalytical Applications Using a Laser Direct-Write Method and Microcontact Printing," <i>Analytical Chemistry</i> , vol. 70, pp. 4645-4652, 1998.

EXAMINER	DATE CONSIDERED
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U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPLICABLE
	BA	6,312,961	11/06/2001	Voirin et al.			
	BB	6,342,349	01/29/2002	Virtanen			
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	BD	6,387,331	05/14/2002	Hunter			
	BE	6,395,558	05/28/2002	Duveneck et al.			
	BF	6,496,309	12/17/2002	Bliton et al.			
	BG	6,685,885	02/03/2004	Nolte et al.			
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FOREIGN PATENT DOCUMENTS							
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	BR		Martin et al., "Direct Protein Microarray Fabrication Using a Hydrogel 'Stamper'," <i>Langmuir</i> , vol. 14, no. 15, pp. 3971-3975, July 21, 1998.				
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	BT		Bietsch et al., "Conformal Contact and Pattern Stability of Stamps Used for Soft Lithography," <i>Journal of Applied Physics</i> , vol. 88, no. 7, pp. 4310-4318, October 1, 2000.				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)		
	CR	Geissler et al., "Microcontact-Printing Chemical Patterns with Flat Stamps," <i>Journal of American Chemical Society</i> , vol. 122, pp. 6303-6304, 2000.
	CS	Sanders et al., "Chip-based Microsystems for Genomic and Proteomic Analysis," <i>Trends in Analytical Chemistry</i> , vol. 19, no. 6, pp. 364-378, 2000.
	CT	Wang, "Survey and Summary: From DNA Biosensors to Gene Chips," <i>Nucleic Acids Research</i> , vol. 28, no. 16, pp. 3011-3016, 2000.

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OTHER REFERENCES <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>							
	DR		Hagmann, "Doing Immunology on a Chip," <i>Science</i> , vol. 290, pp. 82-83, October 6, 2000.				
	DS		Marx, "DNA Arrays Reveal Cancer in Its Many Forms," <i>Science</i> , vol. 289, pp. 1670-1672, September 8, 2000.				
	DT		Effenhauser et al., "Integrated Capillary Electrophoresis on Flexible Silicone Microdevices: Analysis of DNA Restriction Fragments and Detection of Single DNA Molecules on Microchips," <i>Analytical Chemistry</i> , vol. 69, no. 17, pp. 3451-3457, September 1, 1997.				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	ER		He et al., "Fabrication of Nanocolumns for Liquid Chromatography," <i>Analytical Chemistry</i> , vol. 70, no. 18, pp. 3790-3797, September 15, 1998.				
	ES		Kricka, "Miniaturization of Analytical Systems," <i>Clinical Chemistry</i> , vol. 44, no. 9, pp. 2008-2014, 1998.				
	ET		Regnier et al., "Chromatography and Electrophoresis on Chips: Critical Elements of Future Integrated, Microfluidic Analytical Systems for Life Science," <i>Tibtech</i> , vol. 17, pp. 101-106, March 1999.				
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	FR		Ekins et al., "Development of Microspot Multi-Analyte Ratiometric Immunoassay Using Dual Fluorescent-Labeled Antibodies,"				
			<i>Analytical Chimica Acta</i> , vol. 227, pp. 73-96, 1989.				
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			pp. 1955-1967, 1991.				
	FT		Ekins, "Ligand Assays: From Electrophoresis to Miniaturized Microarrays," <i>Clinical Chemistry</i> , vol. 44, no. 9, pp. 2015-2030, 1998.				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	GR		Gao et al., "Immunosensing with Photo-Immobilized Immunoreagents on Planar Optical Wave Guides," <i>Biosensors & Bioelectronics</i> , vol. 10, pp. 317-328, 1995.				
	GS		Maisenhölder et al., "A GaAs/AlGaAs-based Refractometer Platform for Integrated Optical Sensing Applications," <i>Sensors and Actuators B</i> , vol. 38-39, pp. 324-329, 1997.				
	GT		Kunz, "Miniature Integrated Optical Modules for Chemical and Biochemical Sensing," <i>Sensors and Actuators B</i> , vol. 38-39, pp. 13-28, 1997.				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	HR		Dübendorfer et al., "Reference Pads for Miniature Integrated Optical Sensors," <i>Sensors and Actuators B</i> , vol. 38-39, pp. 116-121, 1997.				
	HS		Brecht et al., "Recent Developments in Optical Transducers for Chemical or Biochemical Applications," <i>Sensors and Actuators B</i> , vol. 38-39, pp. 1-7, 1997.				
	HT		Nolte et al., "Adaptive Beam Combining and Interferometry with Photorefractive Quantum Wells," <i>Journal of Optical Society of America B</i> , vol. 18, no. 2, pp. 195-205, February 2001.				
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	IR		St. John et al., "Diffraction-based Cell Detection Using a Microcontact Printed Antibody Grating," <i>Analytical Chemistry</i> , vol. 70, pp. 1108-1111, March 15, 1998.				
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	JP							
	JQ							

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	JR		Blouin et al., "Detection of Ultrasonic Motion of a Scattering Surface by Two-Wave Mixing in a Photorefractive GaAs Crystal,"
			<i>Applied Physics Letter</i> , vol. 65, no. 8, pp. 932-934, August 22, 1994.
	JS		Delamarche et al., "Microfluidic Networks for Chemical Patterning of Substrates: Design and Application to Bioassays," <i>Journal of American Chemical Society</i> , vol. 120, pp. 500-508, 1998.
	JT		Delamarche et al., "Patterned Diversity of Immunoglobulins to Surfaces Using Microfluidic Networks," <i>Science</i> , vol. 276, no. 5313,
			pp. 779-781, May 2, 1997.

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	KR		Delaye et al., "Detection of Ultrasonic Motion of a Scattering Surface by Photorefractive InP:Fe Under an Applied DC Field,"
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	LR		Pouet et al., "Heterodyne Interferometer with Two-Wave Mixing in Photorefractive Crystals for Ultrasound Detection on Rough Surfaces,"
			<i>Applied Physics Letter</i> , vol. 69, no. 25, pp. 3782-3784, December 16, 1996.
	LS		Balasubramanian et al., "Two-Wave-Mixing Dynamics and Nonlinear Hot-Electron Transport in Transverse-Geometry Photorefractive
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			vol. 86, pp. 199-204, 1991.

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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
	MR		Hecht, "Chapter 9.3: Wavefront-Splitting Interferometers," <i>Optics</i> , ©1974, Addison-Wesley Publishing Co., Inc., pp. 281-286.				
	MS		Scruby et al., "Chapter 3.9: Quadrature Interferometers," <i>Laser Interferometry</i> , ©1990, Adam Hilger, pp. 116-122.				
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EXAMINER				DATE CONSIDERED			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							